```
         431254 1-3/MAC
L3        40862 C 1-3/MAC
                (C/MAC (P) 1-3/MAC)

=> s si 1-3/mac
         324837 SI/MAC
         431254 1-3/MAC
L4        80868 SI 1-3/MAC
                (SI/MAC (P) 1-3/MAC)

=> s mg .001-1/mac
          58491 MG/MAC
         480333 .001-1/MAC
L5        28460 MG .001-1/MAC
                (MG/MAC (P) .001-1/MAC)

=> s ti .001-1/mac
         109972 TI/MAC
         480333 .001-1/MAC
L6        52568 TI .001-1/MAC
                (TI/MAC (P) .001-1/MAC)

=> s s .00001-1/mac
          20736 S/MAC
         480333 .00001-1/MAC
L7        18869 S .00001-1/MAC
                (S/MAC (P) .00001-1/MAC)

=> d his

     (FILE 'HOME' ENTERED AT 13:39:12 ON 22 JUN 2003)

     FILE 'REGISTRY' ENTERED AT 13:39:21 ON 22 JUN 2003
L1         28976 S FE 64-67/MAC
L2         12630 S NI 33-37/MAC
L3         40862 S C 1-3/MAC
L4         80868 S SI 1-3/MAC
L5         28460 S MG .001-1/MAC
L6         52568 S TI .001-1/MAC
L7         18869 S S .00001-1/MAC

=> s mn .01-1.5/mac
        302776 MN/MAC
        509199 .01-1.5/MAC
L8      233319 MN .01-1.5/MAC
                (MN/MAC (P) .01-1.5/MAC)

=> s l1 and l2 and l3 and l4 and l5 and l6
L9            2 L1 AND L2 AND L3 AND L4 AND L5 AND L6

=> d all 1-2

L9   ANSWER 1 OF 2  REGISTRY  COPYRIGHT 2003 ACS
RN   169932-92-7  REGISTRY
CN   Iron alloy, base, Fe 21-74,Ni 25-40,Co 0-25,C 0.3-2.5,Al 0.1-2,Nb 0.1-2,Ta
     0.1-2,Ti 0.1-2,Si 0-2,Mn 0-1,Mg 0-0.1 (9CI)  (CA INDEX NAME)
MF   C . Al . Co . Fe . Mg . Mn . Nb . Ni . Si . Ta . Ti
CI   AYS
SR   CA
LC   STN Files:   CA, CAPLUS

Component    Component       Component
              Percent     Registry Number
=========+=============+===============
```

Fe	21	-	74	7439-89-6
Ni	25	-	40	7440-02-0
Co	0	-	25	7440-48-4
C	0.3	-	2.5	7440-44-0
Al	0.1	-	2	7429-90-5
Nb	0.1	-	2	7440-03-1
Ta	0.1	-	2	7440-25-7
Ti	0.1	-	2	7440-32-6
Si	0	-	2	7440-21-3
Mn	0	-	1	7439-96-5
Mg	0	-	0.1	7439-95-4

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 123:293081 CA
TI Cast iron-nickel alloys for high-strength articles with decreased thermal expansion
IN Nishimura, Takanobu; Suzuki, Motoo; Kanbara, Naoto
PA Tokyo Shibaura Electric Co, Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C22C037-08
ICS C21D005-00
CC 55-2 (Ferrous Metals and Alloys)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07179984	A2	19950718	JP 1993-324369	19931222
PRAI	JP 1993-324369		19931222		

AB The high-Ni cast iron contains Ni aluminide intermetallic compds. pptd. in the microstructure for hardening and decreased thermal expansion. The Fe-Ni alloys contain C 0.3-2.5, Si .ltoreq.2.0, Mn .ltoreq.1.0, Mg .ltoreq.0.1, Ni 25-40, Co 0-25, Al 0.1-2.0, and optionally Ti 0.1-2.0, Nb 0.1-2.0, and/or Ta 0.1-2.0%. The castings are finished by soln. treating at 800-1000.degree., quenching, and aging at 450-750.degree..
ST cast iron nickel alloy heat treatment; nickel aluminide pptn iron alloy casting
IT Cast metals and alloys
RL: TEM (Technical or engineered material use); USES (Uses)
(iron-nickel alloys; cast iron-nickel alloys for high-strength articles with dispersed aluminide particles)
IT 169684-53-1 169684-54-2 169684-55-3 169684-56-4 169684-57-5
169684-58-6 169684-59-7 169932-91-6 169932-92-7
RL: TEM (Technical or engineered material use); USES (Uses)
(cast; iron-nickel alloy castings for high-strength articles with decreased thermal expansion)
IT 12003-81-5
RL: MOA (Modifier or additive use); USES (Uses)
(pptd. dispersion; iron-nickel alloy castings for high-strength articles with dispersed aluminide particles)

L9 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS
RN 55192-90-0 REGISTRY
CN Iron alloy, base, Fe 27-98,Ni 0-36,Cu 0-8,Al 0-7,Mn 0-7,C 1.5-6.5,Si 0.5-6,Ti 0-2,B 0-0.1,C 0-0.1,Mg 0-0.1 (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Aluminum alloy, nonbase, Fe 27-98,Ni 0-36,Cu 0-8,Al 0-7,Mn 0-7,C 1.5-6.5,Si 0.5-6,Ti 0-2,B 0-0.1,Ce 0-0.1,Mg 0-0.1
CN Carbon alloy, nonbase, Fe 27-98,Ni 0-36,Cu 0-8,Al 0-7,Mn 0-7,C 1.5-6.5,Si

0.5-6,Ti 0.2,B 0-0.1,Ce 0-0.1,Mg 0-0.1
CN Copper alloy, nonbase, Fe 27-98,Ni 0-36,Cu 0-8,Al 0-7,Mn 0-7,C 1.5-6.5,Si 0.5-6,Ti 0-2,B 0-0.1,Ce 0-0.1,Mg 0-0.1
CN Manganese alloy, nonbase, Fe 27-98,Ni 0-36, Cu 0-8,Al 0-7,Mn 0-7,C 1.5-6.5,Si 0.5-6,Ti 0-2,B 0-0.1,Ce 0-0.1,Mg 0-0.1
CN Manganese alloy, nonbase, Fe 27-98,Ni 0-36,Cu 0-8,Al 0-7,Mn 0-7,C 1.5-6.5,Si 0.5-6,Ti 0-2,B 0-0.1,Ce 0-0.1,Mg 0-0.1
CN Silicon alloy, nonbase, Fe 27-98,Ni 0-36,Cu 0-8,Al 0-7,Mn 0-7,C 1.5-6.5,Si 0.5-6,Ti 0-2,B 0-0.1,Ce 0-0.1,Mg 0-0.1
CN Titanium alloy, nonbase, Fe 27-98,Ni 0-36,Cu 0-8,Al 0-7,Mn 0-7,C 1.5-6.5,Si 0.5-6,Ti 0-2,B 0-0.1,Ce 0-0.1,Mg 0-0.1
MF C . Al . B . Ce . Cu . Fe . Mg . Mn . Ni . Si . Ti
CI AYS
LC STN Files: CA, CAPLUS

Component	Component Percent			Component Registry Number
Fe	27	-	98	7439-89-6
Ni	0	-	36	7440-02-0
Cu	0	-	8	7440-50-8
Al	0	-	7	7429-90-5
Mn	0	-	7	7439-96-5
C	1.5	-	6.5	7440-44-0
Si	0.5	-	6	7440-21-3
Ti	0	-	2	7440-32-6
B	0	-	0.1	7440-42-8
Ce	0	-	0.1	7440-45-1
Mg	0	-	0.1	7439-95-4

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 82:143614 CA
TI Sintered steel alloys containing silicon carbide
IN Frehn, Fritz
PA Deutsche Edelstahlwerke A.-G.
SO Ger. Offen., 7 pp.
CODEN: GWXXBX
DT Patent
LA German
IC C22C
CC 55-4 (Ferrous Metals and Alloys)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2318414	A1	19741031	DE 1973-2318414	19730412
PRAI	DE 1973-2318414		19730412		

AB Sintered alloys of high wear resistance and good damping properties, useful for machine and engine parts, contain TiC 25-33, C(bonded) 0.50, free C 3.0, Si 2.0-3.5, Ni 1.5% and the rest Fe. They have a Rockwell C hardness of 60-4, and damping value Q-1 of >30 .times. 10-5.
ST titanium carbide sintered steel; nickel silicon carbide steel; sintered alloy carbide steel; wear resistant sintered steel; vibration damping sintered steel
IT Vibration
(damping, by wear-resistant titanium carbide alloys, for engine parts)
IT 55192-89-7 55192-90-0
RL: USES (Uses)
(sintered wear-resistant, with good vibration-damping for engine parts)

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=> log hold y
'Y' IS NOT VALID HERE
For an explanation, enter "HELP LOGOFF".

=> log hold
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY     SESSION
FULL ESTIMATED COST                                       44.70       44.91

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY     SESSION
CA SUBSCRIBER PRICE                                       -1.24       -1.24

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:43:07 ON 22 JUN 2003


Welcome to STN International!  Enter x:x

LOGINID:ssspta1101sxv

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 13:45:17 ON 22 JUN 2003
FILE 'REGISTRY' ENTERED AT 13:45:17 ON 22 JUN 2003
COPYRIGHT (C) 2003 American Chemical Society (ACS)

COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY     SESSION
FULL ESTIMATED COST                                       44.70       44.91

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY     SESSION
CA SUBSCRIBER PRICE                                       -1.24       -1.24

=> s l1 and l2 and l3 and l4 and l5 and l6 and l7 and l8
L10             0 L1 AND L2 AND L3 AND L4 AND L5 AND L6 AND L7 AND L8

=> s l1 and l2 and l3 and l6 and l7 and l8
L11             0 L1 AND L2 AND L3 AND L6 AND L7 AND L8

=> s l1 and l2 and l6 and l7 and l8
L12             1 L1 AND L2 AND L6 AND L7 AND L8

=> d all

L12  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS
RN   62700-03-2  REGISTRY
CN   Iron alloy, base, Fe 11-82,Ni 3.9-39,Cr 13-25,Co 0-7.6,Mn 0.6-3.9,W
     0-2.8,Mo 0-2.7,Cu 0-2.5,Si 0.2-2.2,Nb 0-0.9,Ti 0-0.8,C 0-0.5,N 0-0.4,S
     0-0.3,Al 0-0.1 (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Chromium alloy, nonbase, Fe 11-82,Ni 3.9-39,Cr 13-25,Co 0-7.6,Mn 0.6-3.9,W
     0-2.8,Mo 0-2.7,Cu 0-2.5,Si 0.2-2.2,Nb 0-0.9,Ti 0-0.8,C 0-0.5,N 0-0.4,S
     0-0.3,Al 0-0.1
CN   Cobalt alloy, nonbase, Fe 11-82,Ni 3.9-39,Cr 13-25,Co 0-7.6,Mn 0.6-3.9,W
     0-2.8,Mo 0-2.7,Cu 0-2.5,Si 0.2-2.2,Nb 0-0.9,Ti 0-0.8,C 0-0.5,N 0-0.4,S
     0-0.3,Al 0-0.1
CN   Copper alloy, nonbase, Fe 11-82,Ni 3.9-39,Cr 13-25,Co 0-7.6,Mn 0.6-3.9,W
     0-2.8,Mo 0-2.7,Cu 0-2.5,Si 0.2-2.2,Nb 0-0.9,Ti 0-0.8,C 0-0.5,N 0-0.4,S
     0-0.3,Al 0-0.1
CN   Manganese alloy, nonbase, Fe 11-82,Ni 3.9-39,Cr 13-25,Co 0-7.6,Mn
     0.6-3.9,W 0-2.8,Mo 0-2.7,Cu 0-2.5,Si 0.2-2.2,Nb 0-0.9,Ti 0-0.8,C 0-0.5,N
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0-0.4,S 0-0.3,Al 0-0.1
CN Molybdenum alloy, nonbase, Fe 11-82,Ni 3.9-39,Cr 13-25,Co 0-7.6,Mn 0.6-3.9,W 0-2.8,Mo 0-2.7,Cu 0-2.5,Si 0.2-2.2,Nb 0-0.9,Ti 0-0.8,C 0-0.5,N 0-0.4,S 0-0.3,Al 0-0.1
CN Nickel alloy, nonbase, Fe 11-82,Ni 3.9-39,Cr 13-25,Co 0-7.6,Mn 0.6-3.9,W 0-2.8,Mo 0-2.7,Cu 0-2.5,Si 0.2-2.2,Nb 0-0.9,Ti 0-0.8,C 0-0.5,N 0-0.4,S 0-0.3,Al 0-0.1
CN Silicon alloy, nonbase, Fe 11-82,Ni 3.9-39,Cr 13-25,Co 0-7.6,Mn 0.6-3.9,W 0-2.8,Mo 0-2.7,Cu 0-2.5,Si 0.2-2.2,Nb 0-0.9,Ti 0-0.8,C 0-0.5,N 0-0.4,S 0-0.3,Al 0-0.1
CN Tungsten alloy, nonbase, Fe 11-82,Ni 3.9-39,Cr 13-25,Co 0-7.6,Mn 0.6-3.9,W 0-2.8,Mo 0-2.7,Cu 0-2.5,Si 0.2-2.2,Nb 0-0.9,Ti 0-0.8,C 0-0.5,N 0-0.4,S 0-0.3,Al 0-0.1
MF C . Al . Co . Cr . Cu . Fe . Mn . Mo . N . Nb . Ni . S . Si . Ti . W
CI AYS
LC STN Files: CA, CAPLUS

Component	Component Percent			Component Registry Number
Fe	11	-	82	7439-89-6
Ni	3.9	-	39	7440-02-0
Cr	13	-	25	7440-47-3
Co	0	-	7.6	7440-48-4
Mn	0.6	-	3.9	7439-96-5
W	0	-	2.8	7440-33-7
Mo	0	-	2.7	7439-98-7
Cu	0	-	2.5	7440-50-8
Si	0.2	-	2.2	7440-21-3
Nb	0	-	0.9	7440-03-1
Ti	0	-	0.8	7440-32-6
C	0	-	0.5	7440-44-0
N	0	-	0.4	17778-88-0
S	0	-	0.3	7704-34-9
Al	0	-	0.1	7429-90-5

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 86:159754 CA
TI Resistance to oxidation at elevated temperatures of a number of alloy steels
AU Truman, J. E.; Pirt, K. R.
CS Brown-Firth Res. Lab., Sheffield, UK
SO British Corrosion Journal (1976), 11(4), 188-94
CODEN: BCRJA3; ISSN: 0007-0599
DT Journal
LA English
CC 56-8 (Nonferrous Metals and Alloys)
AB Twelve com. nonstainless steels of C and low-alloy types, 17 com. martensitic stainless steels, 11 com. ferritic stainless steels, 26 com. austenitic stainless steels, 4 com. Ni-base alloys, and 7 exptl. steels contg. 1.45-30.16% Cr were subjected to cyclic oxidn. tests in natural gas combustion products (mixts. of N, O, CO2, and steam) at various temps. and std. heat treatments. Oxidn. resistances are expressed in terms of breakdown-temp. ranges and temps. for scaling indexes of 1, 5, and 10. Each specimen was subjected to 7 heating cycles of 6 h each followed by cooling, scale collection, and weighing. Tests were conducted at 50.degree. intervals over ranges such that the scaling indexes ranged from low to high values. The beneficial effects of addns. of Cr up to 30% and of addns. of Si and/or Al to Cr steels were confirmed. Co, Cu, Mo, V, Nb, Ti, and N had little effect. Mn was detrimental to Cr steels and so was C

in some cases. Ni enhanced oxidn. resistance in some cases, but was detrimental in others. S in free-machining stainless steels counteracted the effects of high Mn contents.

ST oxidn resistance nickel alloy steel; stainless steel oxidn resistance; scaling nickel alloy steel

IT Scale (coating)
(formation of, on nickel alloys and steels at high temp. in natural gas combustion products)

IT Combustion gases
(from natural gas, oxidn. and scaling by, of nickel alloys and steels at high temp.)

IT 7704-34-9, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation and scaling resistance of free-machining steels contg.)

IT 62699-99-4, reactions 62700-00-9 62700-01-0 62700-02-1 62700-03-2 62700-04-3 62700-05-4 62700-06-5 62700-07-6 62712-99-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidn. and scaling of, by natural gas combustion products at high temp.)

IT 7429-90-5, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidn. and scaling resistance of chromium steels contg.)

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(FILE 'HOME' ENTERED AT 13:39:12 ON 22 JUN 2003)

FILE 'REGISTRY' ENTERED AT 13:39:21 ON 22 JUN 2003

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L1         28976 SEA PLU=ON  FE 64-67/MAC
L2         12630 SEA PLU=ON  NI 33-37/MAC
L3         40862 SEA PLU=ON  C 1-3/MAC
L4         80868 SEA PLU=ON  SI 1-3/MAC
L5         28460 SEA PLU=ON  MG .001-1/MAC
L6         52568 SEA PLU=ON  TI .001-1/MAC
L7         18869 SEA PLU=ON  S .00001-1/MAC
L8        233319 SEA PLU=ON  MN .01-1.5/MAC
L9             2 SEA PLU=ON  L1 AND L2 AND L3 AND L4 AND L5 AND L6
                 D ALL 1-2
L10            0 SEA PLU=ON  L1 AND L2 AND L3 AND L4 AND L5 AND L6 AND L7 AND
                 L8
L11            0 SEA PLU=ON  L1 AND L2 AND L3 AND L6 AND L7 AND L8
L12            1 SEA PLU=ON  L1 AND L2 AND L6 AND L7 AND L8
                 D ALL
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FILE HOME

FILE REGISTRY
Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 JUN 2003 HIGHEST RN 534773-28-9
DICTIONARY FILE UPDATES: 20 JUN 2003 HIGHEST RN 534773-28-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties

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      in the CAS Registry File, for complete details:
      http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s l1 and l2 and l3 and l4 and l5 and l6 and l7
L13           0 L1 AND L2 AND L3 AND L4 AND L5 AND L6 AND L7

=> s l1 and l2 and l5 and l6 and l7
L14           0 L1 AND L2 AND L5 AND L6 AND L7

=> d his full

      (FILE 'HOME' ENTERED AT 13:39:12 ON 22 JUN 2003)

      FILE 'REGISTRY' ENTERED AT 13:39:21 ON 22 JUN 2003
L1         28976 SEA PLU=ON  FE 64-67/MAC
L2         12630 SEA PLU=ON  NI 33-37/MAC
L3         40862 SEA PLU=ON  C 1-3/MAC
L4         80868 SEA PLU=ON  SI 1-3/MAC
L5         28460 SEA PLU=ON  MG .001-1/MAC
L6         52568 SEA PLU=ON  TI .001-1/MAC
L7         18869 SEA PLU=ON  S .00001-1/MAC
L8        233319 SEA PLU=ON  MN .01-1.5/MAC
L9             2 SEA PLU=ON  L1 AND L2 AND L3 AND L4 AND L5 AND L6
                 D ALL 1-2
L10            0 SEA PLU=ON  L1 AND L2 AND L3 AND L4 AND L5 AND L6 AND L7 AND
                 L8
L11            0 SEA PLU=ON  L1 AND L2 AND L3 AND L6 AND L7 AND L8
L12            1 SEA PLU=ON  L1 AND L2 AND L6 AND L7 AND L8
                 D ALL
L13            0 SEA PLU=ON  L1 AND L2 AND L3 AND L4 AND L5 AND L6 AND L7
L14            0 SEA PLU=ON  L1 AND L2 AND L5 AND L6 AND L7


      FILE HOME

      FILE REGISTRY
      Property values tagged with IC are from the ZIC/VINITI data file
      provided by InfoChem.

      STRUCTURE FILE UPDATES:   20 JUN 2003  HIGHEST RN 534773-28-9
      DICTIONARY FILE UPDATES:  20 JUN 2003  HIGHEST RN 534773-28-9

      TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

        Please note that search-term pricing does apply when
        conducting SmartSELECT searches.

      Crossover limits have been increased.  See HELP CROSSOVER for details.

      Experimental and calculated property data are now available.  See HELP
      PROPERTIES for more information.  See STNote 27, Searching Properties
      in the CAS Registry File, for complete details:
      http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d cost full

FILE & COST CENTER                    QUANTITY @     RATE      ESTIMATED COST
                                                                 U.S. DOLLARS

HOME FILE              COST=
  CONNECT HOURS                        0.01 @      15.00              0.15
  INTERNET HOURS                       0.01 @       6.00              0.06
REGISTRY FILE          COST=
  CONNECT HOURS                        0.10 @      34.00              3.40
  INTERNET HOURS                       0.10 @       6.00              0.60
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DISPLAYS IN FORMAT ABS	3 @	1.34	4.02
DISPLAYS IN FORMAT BIB	3 @	0.96	2.88
DISPLAYS IN FORMAT IDE	3 @	1.68	5.04
DISPLAYS IN FORMAT IND	3 @	0.29	0.87
SEARCH TERMS IN FIELD MAC	8 @	4.22	33.76

SUMMARY BY FILE AND	COST CENTER	HOURS	ESTIMATED COST U.S. DOLLARS
HOME FILE	(NONE)	0.01	0.21
REGISTRY FILE	(NONE)	0.10	50.57
COSTS INCLUDE TELECOMMUNICATION FEES		0.11	0.66

SUMMARY BY COST CENTER		HOURS	ESTIMATED COST U.S. DOLLARS
	(NONE)	0.11	50.78
YOUR TOTAL SESSION COSTS ARE		0.11	50.78

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.86	-1.86

IN FILE 'REGISTRY' AT 13:47:48 ON 22 JUN 2003

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	50.57	50.78

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.86	-1.86

STN INTERNATIONAL LOGOFF AT 13:47:56 ON 22 JUN 2003